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HSV and L21	11

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*DB=USPT,DWPI; PLUR=YES; OP=OR*

<u>L22</u>	HSV and L21	11	<u>L22</u>
<u>L21</u>	vaccine and L20	141	<u>L21</u>
<u>L20</u>	gold adj particle	1658	<u>L20</u>
<u>L19</u>	powderjet and L3	0	<u>L19</u>
<u>L18</u>	particel adj bombardment	0	<u>L18</u>
<u>L17</u>	L16 and HSV	158	<u>L17</u>
<u>L16</u>	L1	635	<u>L16</u>
<u>L15</u>	HSV and L14	12	<u>L15</u>
<u>L14</u>	gold and L13	74	<u>L14</u>
<u>L13</u>	DNA adj vaccine	477	<u>L13</u>
<u>L12</u>	particel adj mediated adj DNA adj vaccine	0	<u>L12</u>
<u>L11</u>	(particel-mediated DNA vaccine)	103690	<u>L11</u>
<u>L10</u>	"particel-mediated DNA vaccine"	0	<u>L10</u>
<u>L9</u>	DNA adj vaccine and L8	1	<u>L9</u>
<u>L8</u>	Macklin MD .in.	446	<u>L8</u>

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<u>L7</u>	Macklin MD in.	230598	<u>L7</u>
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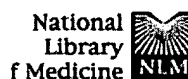
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<u>L6</u>	vaccine and L4	43	<u>L6</u>
<u>L5</u>	gene adj gun and L3	158	<u>L5</u>
<u>L4</u>	L3 and gold	93	<u>L4</u>
<u>L3</u>	L2	158	<u>L3</u>

*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR*

<u>L2</u>	HSV and L1	200	<u>L2</u>
<u>L1</u>	gene adj gun	784	<u>L1</u>

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☐ 1: J Immunol 1995 Jul 1;155(1):259-65

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## Genetic immunization against herpes simplex virus. Protection is mediated by CD4+ T lymphocytes.

Manickan E, Rouse RJ, Yu Z, Wire WS, Rouse BT.

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Department of Microbiology, College of Veterinary Medicine, University of Tennessee, Knoxville 37996, USA.

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Plasmid DNA encoding proteins represent a convenient novel approach to vaccination. We have investigated this "genetic immunization" approach as a means to protect against herpes simplex virus (HSV) infection using a mouse zosteriform model that mimics several aspects of reactivated HSV infection of humans. After i.m. immunization with plasmid DNA-encoding glycoprotein B (gB), (pc-gB), 80% of BALB/c mice were completely protected and lesions were delayed in the remaining animals. Upon pc-gB vaccination, the animals developed both gB- and HSV-specific IgG Ab response and the isotype examination revealed a predominance of IgG2a. These mice also have low levels (1/16) of HSV-neutralizing Abs. Immune splenocytes obtained from pc-gB-immunized mice, when restimulated in vitro with HSV resulted in production of type 1 cytokines. Evidence for CD(8+)-mediated cytotoxic T lymphocyte response was equivocal. Protection could be adoptively transferred to nude mice recipients by CD4+ T cells from pc-gB-immunized mice but not by CD8+ T cells. Our results demonstrate that genetic immunization is a potent means of inducing protection against HSV and that the mechanism of immunity responsible for clearing virus from cutaneous sites is principally by CD4+ T cells. It is likely that these cells are Th1 cells because type 1 cytokines were the major cytokines detected upon in vitro Ag stimulation.

PMID: 7602102 [PubMed - indexed for MEDLINE]

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